

WHAT IS CLAIMED IS:

Sub A1

1. An animating image editing apparatus comprising:
decoding means for decoding encoded animating
image data;
5 storing means for intraframe coding and storing
said decoded animating image data;
editing means for decoding the images which were
stored in said storing means and were intraframe
encoded and for performing an arbitrary edition; and
10 coding means for coding said edited frame image
by an animating image coding system.

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2. An apparatus according to claim 1, wherein ^{the} ~~said~~
encoded ^{moving} ~~animating~~ image data is transmitted from an
15 external apparatus ~~by a communication~~.

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3. An apparatus according to claim 1, wherein ^{the} ~~said~~
arbitrary ^{editing comprises editing} ~~edition~~ is an edition in one frame or an
^{editing} ~~edition~~ in a time base direction between frames.

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Sub A2

4. An apparatus according to claim 1, further
including display means,
wherein said decoding means decodes a part of
said animating image data in the encoded animating
25 image data and displays to display means.

5. An animating image editing apparatus comprising:

intraframe detecting means for detecting an intraframe in encoded animating image data;

decoding means for decoding the animating image data of a predetermined number of frames after the frame detected by said intraframe detecting means;

storing means for storing the animating image data decoded by said decoding means on a frame unit basis;

editing means for performing an arbitrary edition to the images of the frame unit stored in said storing means; and

coding means for encoding said edited frame images by an animating image coding system.

6. An apparatus according to claim 5, further including intraframe coding means,

wherein after said decoded animating image data is intraframe encoded by said intraframe coding means, said storing means stores the intraframe coded animating image data.

7. An apparatus according to claim 5, wherein ^{the} said encoded ^{moving} animating image data is transmitted from an external apparatus ~~by a communication.~~

8. An apparatus according to claim 6, wherein ^{the} said encoded ^{moving} animating image data is transmitted from an.

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external apparatus ~~by a communication.~~

9. An apparatus according to claim 5, wherein ^{the} said arbitrary edition is an edition in the frame or an edition in a time base direction between frames.

10. An apparatus according to claim 6, wherein ^{the} said arbitrary edition is an edition in the frame or an edition in a time base direction between frames.

11. An apparatus according to claim 5, wherein said decoding means executes the decoding from the intraframe just before the frame to be edited by said editing means.

12. An apparatus according to claim 6, wherein said decoding means executes the decoding from the intraframe just before the frame to be edited by said editing means.

13. An apparatus according to claim 5, wherein said decoding means decodes a part of said animating image data in the encoded animating image data and displays to display means.

14. An animating image editing apparatus comprising:

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Sub A³

memory means for storing said animating image
data encoded by said first encoding means;

second encoding means for encoding said edited animating image data by a coding method which pays an importance to a compression ratio than said first encoding means.

16. An apparatus according to claim 14, wherein said first encoding means executes an intraframe encoding.

25 18. An apparatus according to claim 14, wherein
said first encoding means executes a coding process to
the input of said animating image data in a real-time

manner.

19. An apparatus according to claim 14, further including display means for displaying said animating
5 image data and instructing means for instructing the edition to said editing means,

wherein said editing means executes said edition in accordance with the instruction from said
instructing means on said display means.

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20. An apparatus according to claim 19, wherein said display means multi-screen displays said animating image data as a plurality of frame images.

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21. An apparatus according to claim 20, wherein said multi-screens are images obtained by reducing the frame images included in said animating image data.

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22. An apparatus according to claim 19, wherein said edition denotes that the animating image data which is stored and encoded in said memory means is edited in accordance with the instruction of said
instructing means.

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23. An apparatus according to claim 14, wherein said first and second encodings are executed on the basis of a coding conversion program.

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24. An animating image editing apparatus
comprising:

decoding means for decoding animating image data
encoded by an encoding method including an interframe
5 encoding;

encoding means for encoding the animating image
data decoded in parallel with the decoding by said
decoding means by an intraframe encoding; and

editing means for editing said encoded animating
10 image data on a frame unit basis.

25. An apparatus according to claim 24, further
including display means for displaying ^{the} said decoded
^{moving} animating image data.

26. An apparatus according to claim 24, further
including memory means for storing ^{the} said edited
^{moving} animating image data.

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27. An apparatus according to claim 24, further
including accumulating means for accumulating the
^{moving} animating image data encoded by an encoding method
including ^{the} said interframe encoding.

28. An apparatus according to claim 24, wherein
^{the} said encoding and ^{the} said decoding are executed on the
basis of a conversion program.

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Sub A 29. An animating image editing apparatus comprising:

decoding means for decoding animating image data which was encoded by an encoding method including an interframe encoding and stored in a memory medium;

display means for displaying said decoded animating image data;

instructing means for giving an editing instruction to the animating image data displayed on said display means; and

encoding means for intraframe encoding the frame images of the minimum number which are necessary to decode the animating image data instructed by said instructing means in the animating image data stored in said memory medium.

A 30. An apparatus according to claim 29, wherein ~~said~~ ^{the} encoding and ~~said~~ ^{the} decoding are executed on the basis of a conversion program.

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A 31. An apparatus according to claim 29, wherein ~~said~~ ^{the} editing process is a cutting process of ~~said~~ ^E ~~animating~~ ^{moving} image data.

A 32. An apparatus according to claim 29, wherein the encoding including ~~said~~ ^{the} interframe encoding is an MPEG.

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A 33. An apparatus according to claim 29, wherein
said display means multi-screen displays ~~the moving~~
image data as a plurality of frame images.

5 34. An apparatus according to claim 33, wherein
~~the~~ said multi-screens are images which are obtained by
reducing the frame images included in ~~the moving~~
image data.

10 35. An apparatus according to claim 29, wherein
said minimum number of frame images include the frame
images instructed by said instructing means and are
images of the number of frames such that said animating
image data can be decoded without a broken link.

15 36. An animating image editing method comprising
the steps of:

decoding encoded animating image data;

intraframe encoding and storing said decoded

20 animating image data;

decoding an image which is stored in said
storing step and is intraframe encoded and performing
an arbitrary edition; and

25 encoding said edited frame images by an
animating image encoding system.

37. An animating image editing method comprising

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the steps of:

intraframe detecting an intraframe in encoded
animating image data;

5 decoding the animating image data of a
predetermined number of frames after the frame detected
by said intraframe detecting step;

storing the animating image data decoded by said
decoding step on a frame unit basis;

10 performing an arbitrary edition to the images of
the frame unit stored in said storing step; and

encoding said edited frame images by an
animating image encoding system.

15 38. An animating image editing method comprising
the steps of:

first encoding inputted animating image data by
an encoding method which pays an importance to a speed;

storing said animating image data encoded by
said first encoding step;

20 editing said encoded animating image data; and

second encoding said edited animating image data
by an encoding method which pays an importance to a
compression ratio than said first encoding step.

25 39. An animating image editing method comprising
the steps of:

decoding animating image data encoded by an

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~~encoding method including an interframe encoding;
encoding the animating image data decoded in
parallel with the decoding by said decoding step by an
intraframe encoding; and~~

5 editing said encoded animating image data on a
frame unit basis.

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